

MSCI Natural Resources Stewardship Index Methodology

May 2024



Contents

1	MS	MSCI NATURAL RESOURCES STEWARDSHIP INDEX4				
2	CO	NST	RUCTING THE MSCI NATURAL RESOURCES STEWARDSHIP INDEX	5		
	2.1	Sel	ection Universe	5		
	2.2	ESC	G Filtered Universe	5		
	2.2	1	Natural Resources Stewardship-specific Exclusions	5		
	2.2	.2	Circular Economy-related Screens	6		
	2.2	3	Treatment of Unrated Companies	7		
	2.3	"Cir	cular Technologies" Universe	7		
	2.4	"Cir	cular Transition" Universe	7		
	2.4	.1	Intermediate Universe	7		
	2.5	We	ighting Scheme	8		
	2.5	5.1	Security Weighting	8		
	2.5	.2	Region Neutrality	8		
	2.5	.3	Component Weighting	9		
	2.5	.4	Issuer Capping	9		
3	MAINTAINING THE MSCI NATURAL RESOURCES STEWARDSHIP INDEX10					
	3.1	Ser	ni-Annual Index Review	. 10		
	3.2	Qua	arterly Index Reviews	. 10		
	3.3	Ong	going Event-Related Maintenance	. 10		
4 MSCI ESG RESEARCH		SG RESEARCH	12			
	4.1	MS	CI Impact Solutions: Sustainable Impact Metrics	. 12		
	4.2	MS	CI Impact Solutions: SDG Alignment	. 12		
	4.3	4.3 MSCI ESG Ratings		. 13		
	4.4	I.4 MSCI ESG Controversies		. 13		
	4.5	MS	CI ESG Business Involvement Screening Research	. 13		
	4.6	MS	CI Climate Change Metrics	. 13		
Α	PPEN	DIX	I: WHAT IS A CIRCULAR ECONOMY?	15		



APPENDIX II: NATURAL RESOURCES STEWARDSHIP-SPECIFIC EXCLUSIONS	
CRITERIA	16
APPENDIX III: SECTOR-RELATIVE MANAGEMENT SCORE (SRMS) CALCULATION .	18
APPENDIX IV: METHODOLOGY SET	19
APPENDIX V: CHANGES TO THIS DOCUMENT	20



1 MSCI NATURAL RESOURCES STEWARDSHIP INDEX

The MSCI Natural Resources Stewardship Index (the 'Index') aims to represent the performance of a set of companies that are associated with key aspects of the protection of natural resources through their products or services, and/or through their management of related issues, all assessed within the context of potential contribution towards a circular economy (see Appendix I).¹

In particular, the Index incorporates companies that provide technologies ("circular technologies") and/or those that help enable the transition to a circular economy ("circular transition"), as defined using the following measures:

- Pollution Prevention
- Sustainable Agriculture
- Sustainable Water
- Biodiversity and Land Use
- Raw Material Sourcing
- Toxic Emissions & Waste

The Index also applies exclusions criteria to screen companies with business activities that are not considered aligned with the overall objective of protecting natural resources or promoting circularity. Additionally, the Index utilizes a combination of weighting strategies at both security and component levels, as well as applying region-neutrality and issuer capping.

_

¹ The Index is governed by a set of methodology and policy documents ("Methodology Set"), including the present index methodology document. Please refer to Appendix IV for more details.



2 CONSTRUCTING THE MSCI NATURAL RESOURCES STEWARDSHIP INDEX

2.1 Selection Universe

The underlying universe for the Index is defined by the constituents of the MSCI ACWI Investable Market Indexes (IMI, the 'Parent Index'2), from which three separate universes of stocks are constructed (as described in Sections 2.2 to 2.4).³

2.2 ESG Filtered Universe

The Index applies two sets of exclusions criteria to determine eligibility in the ESG Filtered Universe.

2.2.1 Natural Resources Stewardship-specific Exclusions

The Index uses MSCI ESG Controversies, MSCI ESG Business Involvement Screening Research, MSCI Climate Change Metrics, and MSCI Impact Solutions' SDG Alignment to identify companies that have been assessed as negatively impacting the index objective. The exclusions criteria are as follows:

- Human Rights Controversies
- Palm Oil
- Genetically Modified Organisms (GMO)
- Biocide
- Tobacco
- Thermal Coal Mining
- Thermal Coal-based Power Generation
- Unconventional Oil & Gas Extraction
- Oil & Gas Pipelines and Transportation
- Oil & Gas Refining
- SDG 14 and 15 Net Alignment

Please refer to Appendix II for details on these exclusions criteria.

© 2024 MSCI Inc. All rights reserved. Please refer to the disclaimer at the end of this document.

² Other parent indexes, as a subset of MSCI ACWI IMI, may also be used. However, use of some indexes as parent indexes may result in a low number of constituents, which may affect replicability.

³ Please refer to Section 4 for further information regarding the ESG and climate data used in the Index that MSCI Limited sources from MSCI ESG Research LLC, a separate subsidiary of MSCI Inc. MSCI ESG Research is solely responsible for the creation, determination, and management of such data. MSCI Limited and MSCI Deutschland GmbH are the benchmark administrators for the MSCI indexes.



2.2.2 Circular Economy-related Screens

The MSCI Natural Resources Stewardship Index uses MSCI ESG Controversies, MSCI ESG Ratings, MSCI ESG Business Involvement Screening Research, and MSCI Impact Solutions' SDG Alignment to apply a set of exclusions standards which either address headline risks and/or contribute negatively to a circular economy. The exclusions filters are as follows:

- ESG Controversies Score: All companies that are assessed as having involvement in ESG controversies that are classified as Red Flags (MSCI ESG Controversy Score of 0). A Red Flag indicates an ongoing, Very Severe ESG controversy implicating a company directly through its actions, products, or operations.
- 2. **Environmental Controversies**: All companies that are assessed as having involvement in environmental controversies that are classified as Red (MSCI Environmental Controversy Score of 0), Orange⁴ (score of 1), or Yellow⁵ Flags (scores 2 to 4).
- 3. **Environmental Pillar Quartile**: All companies that are assessed as belonging to the bottom quartile relative to their relevant ESG Ratings Industry.
- 4. **Key Issue Management Score/s**: All companies belonging to the bottom 25% of the applicable key issue management score/s. For each key issue, the following steps are applied:
 - Step 1: Using MSCI ACWI IMI Index as the universe, only key issue management scores of companies with more than 5% weight assigned to the corresponding key issue are considered.
 - Step 2: Companies are ranked based on their key issue management scores
 relative to all the companies considered in Step 1. When two companies have the
 same key issue management score, the company with higher weight in the
 Parent Index is ranked higher.
 - Step 3: The lowest 25% based on the ranking of Step 2 are excluded.
- SDG 12 Net Alignment: All companies that are assessed as Strongly Misaligned and Misaligned on their Net Alignment to SDG 12 (Responsible Consumption and Production).
- Controversial Weapons: All companies with any tie to Controversial Weapons (cluster munitions, landmines, depleted uranium weapons, biological/chemical weapons, blinding lasers, non-detectable fragments and incendiary weapons), as defined by the methodology of the MSCI Global Ex-Controversial Weapons Indexes available at https://www.msci.com/index-methodology.

_

⁴ An Orange Flag indicates an ongoing Severe ESG controversy implicating a company directly, or a Very Severe ESG controversy that is either partially resolved or indirectly attributed to the company's actions, products, or operations.

⁵ A Yellow Flag indicates noteworthy ESG controversies. This includes a Very Severe or Severe ESG controversy that has been concluded, a Very Severe controversy that is partially resolved and is indirectly attributed to the company, a Severe controversy that is either partially resolved or indirectly attributed to the company, or an ongoing Moderate controversy implicating a company directly.



2.2.3 Treatment of Unrated Companies

- Companies that are not assessed on MSCI ESG Research's ESG Controversies (exclusion filters 1 and 2) are excluded from the ESG Filtered Universe.
- Companies that are not assessed on MSCI ESG Research's ESG Ratings and SDG Alignment (exclusion filters 3 to 5) are not excluded from the ESG Filtered Universe.

2.3 "Circular Technologies" Universe

The Index uses MSCI Impact Solutions' Sustainable Impact Metrics to identify companies that have exposure to products and services that aim to protect natural resources. Companies in the ESG Filtered Universe that have an aggregated revenue of 25% or more from the following categories ('ESG Revenue') are included in the Circular Technologies Universe:

- Pollution Prevention
- Sustainable Agriculture
- Sustainable Water: aggregated revenue from the Wastewater Treatment Solutions, Water Recycling Equipment & Services, and Rainwater Harvesting Solutions sub-categories

2.4 "Circular Transition" Universe

The Index uses MSCI ESG Ratings' key issue management scores to identify companies that have better management strategies to protect natural resources relative to their sector peers.

The Circular Transition Universe is constructed by selecting stocks in the top 10% of the Intermediate Universe (as described in Section 2.4.1) based on their Sector-Relative Management Score (SRMS), which is computed using the following key issue management score/s:

- Biodiversity & Land Use
- Raw Material Sourcing⁶
- Toxic Emissions & Waste

Please refer to Appendix III detailing the computation steps.

2.4.1 Intermediate Universe

The Intermediate Universe is constructed by selecting stocks in the ESG Filtered Universe (Section 2.2) that are not part of the Circular Technologies Universe (Section 2.3).

6

⁶ There is no single management score for the Raw Material Sourcing Key Issue, as the underlying data incorporates six raw materials. As a result, the Raw Material Sourcing Key Issue Score is used in lieu of the management score.



2.5 Weighting Scheme

The Index constituents that are determined to be part of the Circular Technologies and Circular Transition universes are weighted as follows:

2.5.1 Security Weighting

• Circular Technologies Universe

Securities that meet the selection criteria outlined in Section 2.3 are weighted by the product of the aggregated ESG Revenue and their weight in the Parent Index. The weights are then normalized to sum to 100%.

Circular Transition Universe

Securities that meet the selection criteria outlined in Section 2.4 are weighted in proportion of their weight in the Parent Index. The weights are then normalized to sum to 100%.

2.5.2 Region Neutrality

Region neutrality is calculated in the following steps:

• The regions, including the exceptional treatment⁷ for North America, are as follows:

Region	Underlying Index
Developed Asia Pacific	MSCI Pacific Index
Developed Europe & Middle East	MSCI Europe & Middle East Index
Canada	MSCI Canada Index
USA	MSCI USA Index
Emerging Asia	MSCI Emerging Markets Asia Index
Emerging Europe, Middle East &	MSCI Emerging Markets Europe, Middle East &
Africa	Africa Index
Emerging Latin America	MSCI Emerging Markets Latin America Index

- Constituents are mapped to their respective regions to arrive at the region weight.
- Region weights in the Circular Technologies and Circular Transition universes are each set to be equal to the weight of the corresponding region in the Parent Index.
- Within each region, constituents are re-scaled proportionally.
- The weights are then normalized to sum to 100% for each component (i.e., Circular Technologies and Circular Transition).

⁷ North America is not used, so Canada and the USA are considered separately.



2.5.3 Component Weighting

Each component is scaled down to the following proportion:

Component	Component Weight
Circular Technologies	60%
Circular Transition	40%

2.5.4 Issuer Capping

The maximum weight of any issuer in the Index is then capped at 5% in accordance with the MSCI Capped Indexes methodology⁸. The excess weight of the capped issuers is distributed among the remaining constituents in proportion of their existing weights in the Index⁹.

 $\hbox{@}$ 2024 MSCI Inc. All rights reserved. Please refer to the disclaimer at the end of this document.

 $^{^8}$ Please refer to the MSCI Capped Indexes methodology at $\underline{www.msci.com/index-methodology}$

⁹ Issuer capping may result in a drift in the component weights.



3 MAINTAINING THE MSCI NATURAL RESOURCES STEWARDSHIP INDEX

3.1 Semi-Annual Index Review

The Index is reviewed on a semi-annual basis, as of the close of the last business day of May and November, coinciding with the May and November Index Reviews of the Parent Index. The pro forma index is generally announced nine business days before the effective date.

As a rule, MSCI uses MSCI ESG Research data (including MSCI Impact Solutions, MSCI ESG Ratings, MSCI ESG Controversies, MSCI Business Involvement Screening Research, and MSCI Climate Change Metrics) as of the end of the month preceding the Index Reviews for the rebalancing of the Index. For some securities, such data may not be published by MSCI ESG Research by the end of the month preceding the Index Review. For such securities, MSCI will use ESG data published after the end of month, when available, for the rebalancing of the Index.

At each Semi-Annual Index Review, the ESG Filtered, Circular Technologies, and Circular Transition universes are updated based on the criteria outlined in Sections 2.2 to 2.4.

3.2 Quarterly Index Reviews

The Index is also reviewed on a quarterly basis to coincide with the regular Index Reviews of the Parent Indexes. The changes are implemented at the end of February and August. The pro forma indexes are generally announced nine business days before the effective date.

For the Quarterly Index Reviews, MSCI ESG Ratings, MSCI ESG Controversies, MSCI BISR, MSCI Climate Change Metrics, and MSCI SDG Alignment data are taken as of the end of the month preceding the Index Reviews, i.e., January and July. For some securities, this data may not be published by MSCI ESG Research by the end of the month preceding the Index Review. For such securities, MSCI will use ESG data published after the end of month, when available, for the rebalancing of the Index.

At the Quarterly Index Reviews, existing constituents in the ESG Filtered Universe are deleted from the Index if they do not meet the criteria described in Section 2.2. Existing constituents that meet the criteria are retained in the Index.

3.3 Ongoing Event-Related Maintenance

The general treatment of corporate events in the Index aims to minimize turnover outside of Index Reviews. The methodology aims to appropriately represent an investor's participation in an event based on relevant deal terms and pre-event weighting of the index constituents that are involved. Further, changes in index market capitalization that occur as a result of corporate event implementation will be offset by a corresponding change in the Variable Weighting Factor (VWF) of the constituent.

The following section briefly describes the treatment of common corporate events within the Index.

No new securities will be added (except where noted below) to the Index between Index Reviews. Parent Index deletions will be reflected simultaneously.



There are no deletions from the Index between Index Reviews on account of a security becoming ineligible because of reduced ESG revenue falling below the threshold, lower SRMS resulting in a drop in ranking, decrease in MSCI ESG Controversies Score, change in SDG Alignment assessment, and/or change in business involvement.

EVENT TYPE EVENT DETAILS

New additions to the Parent Index A new security added to the Parent Index (such as IPO

and other early inclusions) will not be added to the index.

Spin-Offs All securities created as a result of the spin-off of an

existing Index constituent will not be added to the Index at the time of event implementation. Reevaluation for addition in the Index will occur at the subsequent Index

Review.

Merger/Acquisition For Mergers and Acquisitions, the acquirer's post event

weight will account for the proportionate amount of shares involved in deal consideration, while cash proceeds will be invested across the Index.

If an existing Index constituent is acquired by a non-Index constituent, the existing constituent will be deleted from the Index and the acquiring non-constituent will not be

added to the Index.

Changes in Security Characteristics A security will continue to be an Index constituent if there

are changes in characteristics (country, sector, size segment, etc.). Reevaluation for continued inclusion in the

Index will occur at the subsequent Index Review.

Further detail and illustration regarding specific treatment of corporate events relevant to this Index can be found in the MSCI Corporate Events Methodology.

The MSCI Corporate Events methodology book is available at: https://www.msci.com/index-methodology.



4 MSCI ESG RESEARCH

The Index is a product of MSCI Inc. that utilizes information such as company ratings and research produced and provided by MSCI ESG Research LLC (MSCI ESG Research), a subsidiary of MSCI Inc. In particular, the Index uses the following MSCI ESG Research products: MSCI Impact Solutions, MSCI ESG Ratings, MSCI ESG Controversies, MSCI ESG Business Involvement Screening Research, and MSCI Climate Change Metrics. MSCI Indexes are administered by MSCI Limited and MSCI Deutschland GmbH.

4.1 MSCI Impact Solutions: Sustainable Impact Metrics

MSCI Impact Solutions' Sustainable Impact Metrics is designed to identify companies that derive revenue from products or services with positive impact on society and the environment. The Sustainable Impact Metrics are comprised of six Environmental Impact categories and seven Social Impact categories arranged by theme.

MSCI Sustainable Impact Taxonomy

Pillar	Themes	Categories
Environmental	Climate Change	1. Alternative energy
Impact		2. Energy efficiency
		3. Green building
	Natural capital	4. Sustainable water
		5. Pollution prevention
		6. Sustainable agriculture
Social Impact	Basic needs	7. Nutrition
		8. Major Disease Treatment
		9. Sanitation
		10. Affordable Real Estate
	Empowerment	11. SME Finance
		12. Education
		13. Connectivity – Digital divide

Under each of the actionable environmental and social impact themes, MSCI ESG Research has identified specific categories of products and services that it has determined companies can offer as potential solutions to environmental and social challenges.

More detailed taxonomy for each category can be found in Section 2.4 of the MSCI ACWI Sustainable Impact Index Methodology available at https://www.msci.com/index-methodology.

4.2 MSCI Impact Solutions: SDG Alignment

MSCI Impact Solutions' SDG Alignment is designed to provide a holistic view of companies' net contribution – both positive and negative – towards addressing each of the 17 UN Sustainable Development Goals (SDGs). SDG Alignment assessments and scores include analysis of companies' operations, products and services, policies, and practices and their net contribution – positive and adverse – to addressing key global challenges.



The MSCI SDG Alignment framework provides 17 SDG Net Alignment scores and 17 SDG Net Alignment assessments (including Strongly Aligned, Aligned, Neutral, Misaligned and Strongly Misaligned) for each of the 17 global goals. In addition, the model offers assessments and scores for two dimensions, product alignment and operation alignment, for each company and for each of the 17 goals.

For more details on MSCI Impact Solutions including MSCI SDG Alignment, please refer to https://www.msci.com/our-solutions/esq-investing/impact-solutions.

4.3 MSCI ESG Ratings

MSCI ESG Ratings aim to measure entities' management of environmental, social and governance risks and opportunities. MSCI ESG Ratings use a weighted average key issue calculation that is normalized by industry to arrive at an industry-adjusted ESG score (0-10), which is then translated to a seven-point scale from 'AAA' to 'CCC', indicating how an entity manages relevant key issues relative to industry peers.

The MSCI ESG Ratings methodology can be found at: https://www.msci.com/esg-and-climate-methodologies.

4.4 MSCI ESG Controversies

MSCI ESG Controversies provides assessments of controversies concerning the potential negative environmental, social, and/or governance impact of company operations, products and services. The evaluation framework used in MSCI ESG Controversies is designed to be consistent with international norms represented by the UN Declaration of Human Rights, the ILO Declaration on Fundamental Principles and Rights at Work, and the UN Global Compact. MSCI ESG Controversies Score falls on a 0-10 scale, with "0" being the most severe controversy.

The MSCI ESG Controversies methodology can be found at: https://www.msci.com/esg-and-climate-methodologies

4.5 MSCI ESG Business Involvement Screening Research

MSCI ESG Business Involvement Screening Research (BISR) aims to enable institutional investors to manage environmental, social and governance (ESG) standards and restrictions reliably and efficiently.

For more details on MSCI ESG Business Involvement Screening Research, please refer to http://www.msci.com/resources/factsheets/MSCI_ESG_BISR.pdf.

4.6 MSCI Climate Change Metrics

MSCI Climate Change Metrics provide climate data & tools to support institutional investors seeking to integrate climate risk & opportunities into their investment strategy and processes. This includes investors seeking to achieve a range of objectives, including measuring and reporting on climate risk exposure, implementing low carbon and fossil fuel-free strategies, alignment with temperature pathways and factoring climate change research into their risk management processes, in particular through climate scenario analysis for both transition and physical risks.

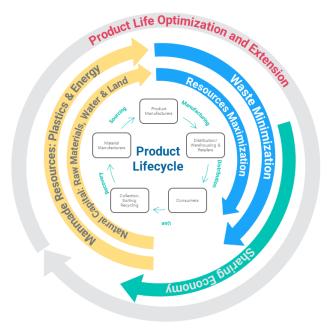


The dataset spans across the four dimensions of a climate strategy: transition risks, green opportunities, physical risks and 1.5° alignment.

For more details on MSCI Climate Change Metrics, please refer to https://www.msci.com/climate-solutions.



APPENDIX I: WHAT IS A CIRCULAR ECONOMY?



A circular economy is an economic system wherein resources are kept as long as possible within the system, whether by rethinking resource-intensive products and processes, maximizing the use of materials, extending the life of products, and/or recycling of waste materials. This is a structural shift from the current linear economy, where materials are taken, converted via a manufacturing process, used, and then disposed. Underlying to the concept of a circular economy are the 9R strategies, 10 which provide a holistic view to improving circularity at each stage of a product's lifecycle.

For more information, please see the Circular Economy Theme Insight written by Rachel A. Meidl: https://www.msci.com/documents/1296102/28401354/ThematicIndex-CircularEconomy-cbr-en.pdf

¹⁰ Circular Economy: Measuring Innovation in the Product Chain, Policy Report by PBLK Netherlands Environmental Assessment Agency, (Potting, J., Hekkert, M., Worrell, E., Hanemaaijer, A.), https://www.pbl.nl/sites/default/files/downloads/pbl-2016-circulareconomy-measuring-innovation-in-product-chains-2544.pdf



APPENDIX II: NATURAL RESOURCES STEWARDSHIP-SPECIFIC EXCLUSIONS CRITERIA

Companies are excluded based on the following MSCI ESG Controversies, MSCI Business Involvement Screening Research, and MSCI Climate Change Metrics filters:

• Human Rights Controversies

 All companies that are assessed as having involvement in human rights-related controversies that are classified as Red (MSCI Human Rights Controversy Score of 0) or Orange Flags (score of 1).

Palm Oil

 All companies with any tie to Palm Oil – in particular, ties through production, distribution, and/or ownership categories.

Genetically Modified Organisms (GMO)

 All companies that genetically modify plants, such as seeds and crops, and other organisms intended for agricultural use or human consumption. This category also covers companies that have applied for USDA APHIS permits for field testing, notifications, or deregulated status of genetically modified crops.

Biocide

 All companies that produce biocides, covering anti-fouling products and pesticides, such as rodenticides, avicides, molluscicides, vermicides, piscicides, and insecticides.

Tobacco

 All companies that manufacture tobacco products, such as cigars, blunts, cigarettes, e-cigarettes, inhalers, beedis, kreteks, smokeless tobacco, snuff, snus, dissolvable and chewing tobacco. This category also covers companies that grow or process raw tobacco leaves.

• Thermal Coal Mining

 All companies deriving any revenue (either reported or estimated) from the mining of thermal coal (including lignite, bituminous, anthracite and steam coal) and its sale to external parties. It does not cover revenue from metallurgical coal; coal mined for internal power generation (e.g., in the case of vertically integrated power producers); intra-company sales of mined thermal coal; and revenue from coal trading.

• Thermal Coal-based Power Generation

- All companies deriving any revenue (either reported or estimated) from thermal coal -based power generation.
- Unconventional Oil & Gas Extraction



- All companies deriving any revenue (either reported or estimated) from unconventional oil and gas. It includes revenues from oil sands, shale gas, and shale oil. It excludes all types of conventional oil and gas production including Arctic onshore/offshore, deepwater, shallow water and other onshore/offshore.
- Oil & Gas Pipelines and Transportation
 - All companies deriving any revenue (either reported or estimated) from oil and gas pipelines and transportation. It covers revenues from mid-stream operations but excludes revenues from terminals and storage facilities.
- Oil & Gas Refining
 - All companies deriving any revenue (either reported or estimated) from refining oil and gas.
- SDG 14 and 15 Net Alignment
 - All companies that are assessed as Strongly Misaligned and Misaligned on their Net Alignment to SDG 14 (Life Below Water) and SDG 15 (Life on Land)



APPENDIX III: SECTOR-RELATIVE MANAGEMENT SCORE (SRMS) CALCULATION

Companies are selected based on their SRMS. The calculation steps are as follows:

- An average management score (AMS) is calculated for companies in MSCI ACWI IMI using management scores based on the identified key issue/s, granted that they meet the following conditions:
 - Companies are assessed on any of the identified key issue/s listed in Section 2.4.
 - Companies have corresponding key issue weight/s greater than 5%.

The calculation of AMS will consider the applicable number of key issues, meaning a company with two relevant scores are divided by two, for example.

2. The SRMS is calculated for companies that are identified in Step 1 by dividing the AMS by the corresponding highest (maximum) AMS based on their GICS®¹¹ Sector.

Exception clause: A GICS Sector with a maximum AMS below 5 is excluded from scope, which in turn, results in the exclusion of all companies belonging to the excluded sector, from the calculation of SRMS.

¹¹ GICS, the global industry classification standard, jointly developed by MSCI Inc. and S&P Global.



APPENDIX IV: METHODOLOGY SET

The Indexes are governed by a set of methodology and policy documents ("Methodology Set"), including the present index methodology document as mentioned below:

- Description of methodology set <u>www.msci.com/index/methodology/latest/ReadMe</u>
- MSCI Corporate Events Methodology <u>www.msci.com/index/methodology/latest/CE</u>
- MSCI Fundamental Data Methodology www.msci.com/index/methodology/latest/FundData
- MSCI Index Calculation Methodology www.msci.com/index/methodology/latest/IndexCalc
- MSCI Index Glossary of Terms www.msci.com/index/methodology/latest/IndexGlossary
- MSCI Index Policies <u>www.msci.com/index/methodology/latest/IndexPolicy</u>
- MSCI Global Industry Classification Standard (GICS) Methodology www.msci.com/index/methodology/latest/GICS
- MSCI Global Investable Market Indexes Methodology www.msci.com/index/methodology/latest/GIMI
- MSCI ACWI IMI Sustainable Impact Indexes Methodology www.msci.com/index/methodology/latest/SI
- MSCI Capped Indexes Methodology <u>https://www.msci.com/index/methodology/latest/Capped</u>
- MSCI Global ex Controversial Weapons Indexes Methodology https://www.msci.com/index/methodology/latest/XCW
- ESG Factors In Methodology¹²

The Methodology Set for the Indexes can also be accessed from MSCI's webpage https://www.msci.com/index-methodology in the section 'Search Methodology by Index Name or Index Code'.

¹² 'ESG Factors in Methodology' contains the list of environmental, social, and governance factors considered, and how they are applied in the methodology (e.g., selection, weighting or exclusion). It can be accessed in the Methodology Set as described above.



APPENDIX V: CHANGES TO THIS DOCUMENT

The following sections have been updated as of May 2022:

Section 3.2.2: Circular Economy-related Screens

• Clarified the calculation logic for the 'Key Issue Management Score/s' exclusions criterion.

Section 4.3: Ongoing Event-Related Maintenance

• Clarified the maintenance rules.

The following sections have been modified as of November 2023:

The Methodology book was updated to re-organize the sections and clarify key components.

Section 2.2.2 and Appendix II: Circular Economy-related Screens

- The MSCI ESG Controversies-related criteria were updated to reflect the enhancement to the underlying MSCI ESG Controversies framework.
- The Key Issue Management Score/s criterion was clarified by outlining the calculation steps.

Section 2.5.2: Region Neutrality

• Clarified the calculation steps to achieve region neutrality.

Section 3.1: Semi- Annual Index Review

- The Methodology book was updated to reflect the transition of the MSCI Global Investable Market Indexes (GIMI) to Quarterly Comprehensive Index Reviews.
- All references to "Semi-Annual Index Reviews" and "Quarterly Index Reviews" of the MSCI GIMI were replaced with "Index Reviews."

Section 4: MSCI ESG Research

• Moved the information regarding MSCI ESG Research from Section 2 to Section 4.

The following sections have been modified as of May 2024:

Appendix IV: Methodology Set

Added details on the Methodology Set for the Index

Appendix II: Natural Resources Stewardship-specific exclusions criteria

 Clarified the exclusion criteria related to select fossil fuel-based activities (Thermal Coalbased Power Generation and Unconventional Oil & Gas Extraction)



Contact us

msci.com/contact-us

AMERICAS

United States + 1 888 588 4567 *
Canada + 1 416 687 6270
Brazil + 55 11 4040 7830
Mexico + 52 81 1253 4020

EUROPE, MIDDLE EAST & AFRICA

South Africa+ 27 21 673 0103Germany+ 49 69 133 859 00Switzerland+ 41 22 817 9777United Kingdom+ 44 20 7618 2222Italy+ 39 02 5849 0415France+ 33 17 6769 810

ASIA PACIFIC

* toll-free

China +86 21 61326611 +852 2844 9333 Hong Kong India + 91 22 6784 9160 1800818185 * Malaysia South Korea + 82 70 4769 4231 Singapore +6567011177 Australia +612 9033 9333 Taiwan 008 0112 7513 * Thailand 0018 0015 6207 7181 * +81345790333 Japan

About MSCI

MSCI is a leading provider of critical decision support tools and services for the global investment community. With over 50 years of expertise in research, data and technology, we power better investment decisions by enabling clients to understand and analyze key drivers of risk and return and confidently build more effective portfolios. We create industry-leading researchenhanced solutions that clients use to gain insight into and improve transparency across the investment process.

To learn more, please visit www.msci.com.

The process for submitting a formal index complaint can be found on the index regulation page of MSCI's website

at: https://www.msci.com/index-regulation.



Notice and disclaimer

This document is research for informational purposes only and is intended for institutional professionals with the analytical resources and tools necessary to interpret any performance information. Nothing herein is intended to promote or recommend any product, tool or service.

This document and all of the information contained in it, including without limitation all text, data, graphs, charts (collectively, the "Information") is the property of MSCI Inc. or its subsidiaries (collectively, "MSCI"), or MSCI's licensors, direct or indirect suppliers or any third party involved in making or compiling any Information (collectively, with MSCI, the "Information Providers") and is provided for informational purposes only. The Information may not be modified, reverse-engineered, reproduced or redisseminated in whole or in part without prior written permission from MSCI. All rights in the Information are reserved by MSCI and/or its Information Providers.

The Information may not be used to create derivative works or to verify or correct other data or information. For example (but without limitation), the Information may not be used to create indexes, databases, risk models, analytics, software, or in connection with the issuing, offering, sponsoring, managing or marketing of any securities, portfolios, financial products or other investment vehicles utilizing or based on, linked to, tracking or otherwise derived from the Information or any other MSCI data, information, products or services.

The user of the Information assumes the entire risk of any use it may make or permit to be made of the Information. NONE OF THE INFORMATION PROVIDERS MAKES ANY EXPRESS OR IMPLIED WARRANTIES OR REPRESENTATIONS WITH RESPECT TO THE INFORMATION (OR THE RESULTS TO BE OBTAINED BY THE USE THEREOF), AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, EACH INFORMATION PROVIDER EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES (INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF ORIGINALITY, ACCURACY, TIMELINESS, NON-INFRINGEMENT, COMPLETENESS, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) WITH RESPECT TO ANY OF THE INFORMATION.

Without limiting any of the foregoing and to the maximum extent permitted by applicable law, in no event shall any Information Provider have any liability regarding any of the Information for any direct, indirect, special, punitive, consequential (including lost profits) or any other damages even if notified of the possibility of such damages. The foregoing shall not exclude or limit any liability that may not by applicable law be excluded or limited, including without limitation (as applicable), any liability for death or personal injury to the extent that such injury results from the negligence or willful default of itself, its servants, agents or sub-contractors.

Information containing any historical information, data or analysis should not be taken as an indication or guarantee of any future performance, analysis, forecast or prediction. Past performance does not guarantee future results.

The Information may include "Signals," defined as quantitative attributes or the product of methods or formulas that describe or are derived from calculations using historical data. Neither these Signals nor any description of historical data are intended to provide investment advice or a recommendation to make (or refrain from making) any investment decision or asset allocation and should not be relied upon as such. Signals are inherently backward-looking because of their use of historical data, and they are not intended to predict the future. The relevance, correlations and accuracy of Signals frequently will change materially.

The Information should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions. All Information is impersonal and not tailored to the needs of any person, entity or group of persons.

None of the Information constitutes an offer to sell (or a solicitation of an offer to buy), any security, financial product or other investment vehicle or any trading strategy.

It is not possible to invest directly in an index. Exposure to an asset class or trading strategy or other category represented by an index is only available through third party investable instruments (if any) based on that index. MSCI does not issue, sponsor, endorse, market, offer, review or otherwise express any opinion regarding any fund, ETF, derivative or other security, investment, financial product or trading strategy that is based on, linked to or seeks to provide an investment return related to the performance of any MSCI index (collectively, "Index Linked Investments"). MSCI makes no assurance that any Index Linked Investments will accurately track index performance or provide positive investment returns. MSCI Inc. is not an investment adviser or fiduciary and MSCI makes no representation regarding the advisability of investing in any Index Linked Investments.

Index returns do not represent the results of actual trading of investible assets/securities. MSCI maintains and calculates indexes, but does not manage actual assets. The calculation of indexes and index returns may deviate from the stated methodology. Index returns do not reflect payment of any sales charges or fees an investor may pay to purchase the securities underlying the index or Index Linked Investments. The imposition of these fees and charges would cause the performance of an Index Linked Investment to be different than the MSCI index performance.

The Information may contain back tested data. Back-tested performance is not actual performance, but is hypothetical. There are frequently material differences between back tested performance results and actual results subsequently achieved by any investment strategy.

Constituents of MSCI equity indexes are listed companies, which are included in or excluded from the indexes according to the application of the relevant index methodologies. Accordingly, constituents in MSCI equity indexes may include MSCI Inc., clients of MSCI or suppliers to MSCI. Inclusion of a security within an MSCI index is not a recommendation by MSCI to buy, sell, or hold such security, nor is it considered to be investment advice.

Data and information produced by various affiliates of MSCI Inc., including MSCI ESG Research LLC and Barra LLC, may be used in calculating certain MSCI indexes. More information can be found in the relevant index methodologies on www.msci.com.

MSCI receives compensation in connection with licensing its indexes to third parties. MSCI Inc.'s revenue includes fees based on assets in Index Linked Investments. Information can be found in MSCI Inc.'s company filings on the Investor Relations section of msci.com.

MSCI ESG Research LLC is a Registered Investment Adviser under the Investment Advisers Act of 1940 and a subsidiary of MSCI Inc. Neither MSCI nor any of its products or services recommends, endorses, approves or otherwise expresses any opinion regarding any issuer, securities, financial products or instruments or trading strategies and MSCI's products or services are not a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such, provided that applicable products or services from MSCI ESG Research may constitute investment advice. MSCI ESG Research materials, including materials utilized in any MSCI ESG Indexes or other products, have not been submitted to, nor received approval from, the United States Securities and Exchange Commission or any other regulatory body. MSCI ESG and climate ratings, research and data are produced by MSCI ESG Research LLC, a subsidiary of MSCI Inc. MSCI ESG Indexes, Analytics and Real Estate are products of MSCI Inc. that utilize information from MSCI ESG Research LLC. MSCI Indexes are administered by MSCI Limited (UK) and MSCI Deutschland GmbH.

Please note that the issuers mentioned in MSCI ESG Research materials sometimes have commercial relationships with MSCI ESG Research and/or MSCI Inc. (collectively, "MSCI") and that these relationships create potential conflicts of interest. In some cases, the issuers or their affiliates purchase research or other products or services from one or more MSCI affiliates. In other cases, MSCI ESG Research rates financial products such as mutual funds or ETFs that are managed by MSCI's clients or their affiliates, or are based on MSCI Inc. Indexes. In addition, constituents in MSCI Inc. equity indexes include companies that subscribe to MSCI products or services. In some cases, MSCI clients pay fees based in whole or part on the assets they manage. MSCI ESG Research has taken a number of steps to mitigate potential conflicts of interest and safeguard the integrity and independence of its research and ratings. More information about these conflict mitigation measures is available in our Form ADV, available at https://adviserinfo.sec.gov/firm/summary/169222.



Any use of or access to products, services or information of MSCI requires a license from MSCI. MSCI, Barra, RiskMetrics, IPD and other MSCI brands and product names are the trademarks, service marks, or registered trademarks of MSCI or its subsidiaries in the United States and other jurisdictions. The Global Industry Classification Standard (GICS) was developed by and is the exclusive property of MSCI and S&P Global Market Intelligence. "Global Industry Classification Standard (GICS)" is a service mark of MSCI and S&P Global Market Intelligence.

MIFID2/MIFIR notice: MSCI ESG Research LLC does not distribute or act as an intermediary for financial instruments or structured deposits, nor does it deal on its own account, provide execution services for others or manage client accounts. No MSCI ESG Research product or service supports, promotes or is intended to support or promote any such activity. MSCI ESG Research is an independent provider of ESG data.

Privacy notice: For information about how MSCI collects and uses personal data, please refer to our Privacy Notice at https://www.msci.com/privacy-pledge.